

AMENDMENTS TO THE DRAWINGS

**The attached drawing sheets 8/12 includes changes to Figures 8A and 8B.
This sheet replaces original Figures 8A and 8B.**

Attachment: Replacement Sheet 8/12.

REMARKS

The above amendments and following remarks are responsive to the points raised in the December 13, 2005 non-final Office Action. Upon entry of the above amendments, Claims 1-7 will have been amended. Claims 1-9 will be pending. No new matter has been introduced. Entry and reconsideration is respectfully requested.

Response to Objection of the Specification

The Examiner has objected to the specification, in particular, Page 8, Line 19, wherein the Examiner urges that the language of "m rows" should be changed to --n rows--.

Applicants have amended the specification as suggested by the Examiner to obviate this objection.

Accordingly, this objection is now moot and should be withdrawn.

Response to the Rejection Under 35 U.S.C. § 102(e)

Claims 1-9 have been rejected under 35 U.S.C. § 102(e) as being unpatentable over US Patent Application Publication No. 2004/010110 A1 to Morii et al. (Morii) of US Patent 6,967,332 to Kobayashi et al. (Kobayashi). Claims 1-9 have been rejected under 35 U.S.C. § 102(b) as being unpatentable over US Patent 5,448,613 to Haendle et al. (Haendle). Applicants traverse these rejections.

The claimed invention is directed to a radiographic apparatus and system. In its most general terms, the radiographic apparatus and system comprise a substrate ("1" of Fig.1), a conversion portion having a plurality of pixels arranged on said substrate ("1" of Fig.1) in a matrix, each pixel including a first semiconductor conversion device ("M11-M44" of Fig.2)

which converts radiation into an electrical signal and a switching device ("T11-T44" of Fig.2) which is connected to said first semiconductor conversion device ("M11-M44" of Fig.2); a plurality of second semiconductor conversion devices ("MA31-MA34" of Fig.2) arranged on said substrate ("1" of Fig.1) to convert radiation into an electrical signal to detect the amount of radiation incident on said conversion portion; and a plurality of printed wiring boards ("a1-a9, d1-d8" of Fig.1) which are respectively connected to said plurality of pixels, wherein said conversion portion includes a plurality of pixel regions ("4" of Fig.1) each having at least one pixel; each of said plurality of pixel regions ("4" of Fig.1) corresponding to respective one of said plurality of printed writing boards ("a1-a9, d1-d8" of Fig.1); said plurality of second semiconductor conversion devices ("MA31-MA34" of Fig.2) are arranged in one or some of said plurality of pixel regions ("5" of Fig.1), and said second semiconductor conversion devices ("MA31-MA34" of Fig.2) and said pixels arranged in the same pixel region ("5" of Fig.1) are connected to the same printed wiring board ("a3, a5, a7, d2, d4" of Fig.1).

The advantages of the claimed elements are, for example, described in the specification on page 16, line 24 to page 17, line 4, and on page 26, line 9-15.

Morii, Kobayashi and Haendle do not disclose a plurality of printed wiring board blocks. Therefore, Morii, Kobayashi and Haendle do not disclose or suggest, at least, (1) "a plurality of pixel regions each corresponding to respective one of a plurality of printed writing boards", (2) "a plurality of second semiconductor conversion devices which are arranged in one or some of said plurality of pixel regions" and (3) "said second semiconductor conversion devices and pixels arranged in the same pixel region are connected to the same printed wiring board."

Thus, the claimed inventions are patentably distinguished over Morii, Kobayashi, and/or Haendle.

Accordingly, the rejections under 35 U.S.C. §§ 102(e) and (b) should be withdrawn.

Response to Objection of the Drawings

The drawings have been objected to on the basis that Figures 8A and 8B “should be designated by a legend such as --Prior Art-- because only that which is old is illustrated.”

Applicants have amended Figures 8A and 8B, drawing sheet 8/12, to include the legend “PRIOR ART”.

Accordingly, this objection is not moot and should be withdrawn.

CONCLUSION

Applicant respectfully submits that Claims 1-9 are in condition for allowance and a notice to that effect is earnestly solicited.

AUTHORIZATION

The Commissioner is hereby authorized to charge any fees which may be required for filing this response to Office Action to Deposit Account No. 13-4500, Order No. 1232-5257.

Respectfully submitted,

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